http://www.cas.org/support/stngen/stndoc/properties.html

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L1 STRUCTURE UPLOADED

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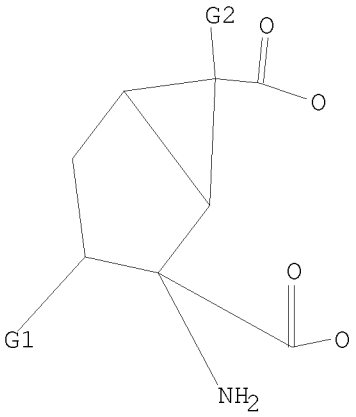
L1 HAS NO ANSWERS
L1 STR



G1 O,S,N

G2 X,H

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 14:07:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 558 TO ITERATE

100.0% PROCESSED 558 ITERATIONS 332 ANSWERS
SEARCH TIME: 00.00.01

L2 332 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 191.54 191.76

FILE 'CAPLUS' ENTERED AT 14:07:51 ON 28 MAR 2010
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 28 Mar 2010 VOL 152 ISS 14
FILE LAST UPDATED: 26 Mar 2010 (20100326/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

CAplus now includes complete International Patent Classification (IPC)
reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

http://www.cas.org/legal/infopolicy.html

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s l2
L3 30 L2

=> s l3 and py<2003
22998523 PY<2003
L4 4 L3 AND PY<2003

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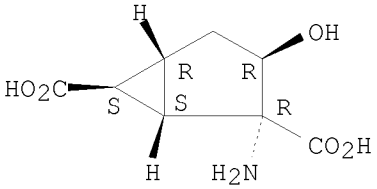
THE ESTIMATED COST FOR THIS REQUEST IS 23.24 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:851222 CAPLUS
DOCUMENT NUMBER: 138:198858
TITLE: Molecular docking of ligands of glutamate receptors
AUTHOR(S): Belenikin, M. S.; Makkiarulo, A.; Konstantino, G.; Palyulin, V. A.; Pellichari, P.; Zefirov, N. S.
CORPORATE SOURCE: Kafedra Org. Khim., Mosk. Gos. Univ., Moscow, Russia
SOURCE: Vestnik Moskovskogo Universiteta, Seriya 2: Khimiya (2002), 43(4), 221-230
CODEN: VMUKA5; ISSN: 0579-9384
PUBLISHER: Izdatel'stvo Moskovskogo Universiteta
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Docking of a number of agonists and antagonists into glutamate-binding sites of human metabotropic and ionotropic glutamate receptors was modeled using the computer program AutoDock 3.0. The three-dimensional structures of the ligand-receptor complexes were in good agreement with exptl. data. Effect of water mols. at the ligand-binding site of the receptor on the ligand orientation was studied.
IT 259134-85-5

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(modeling of mol. docking of ligands of human metabotropic and ionotropic glutamate receptors)
RN 259134-85-5 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

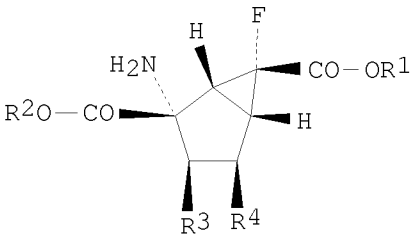
Absolute stereochemistry. Rotation (+).



L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2002:10425 CAPLUS
DOCUMENT NUMBER: 136:85627
TITLE: Preparation of bicyclo[3.1.0]dicarboxylic acid derivatives as group 2 metabotropic glutamate receptor agonists
INVENTOR(S): Nakazato, Atsuro; Kumagai, Toshihito; Kanuma, Kosuke; Sakagami, Kazunari
PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002000605	A1	20020103	WO 2001-JP5550	20010628 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001067854	A	20020108	AU 2001-67854	20010628 <--
CA 2411059	A1	20021206	CA 2001-2411059	20010628 <--
EP 1295865	A1	20030326	EP 2001-945657	20010628
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1216038	C	20050824	CN 2001-811723	20010628
AU 2001267854	B2	20051201	AU 2001-267854	20010628
US 20030134902	A1	20030717	US 2002-297479	20021206

US 6770676 B2 20040803
HK 1056868 A1 20051202 HK 2003-109245 20031219
PRIORITY APPLN. INFO.: JP 2000-195239 A 20000628
WO 2001-JP5550 W 20010628
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 136:85627
GI



I

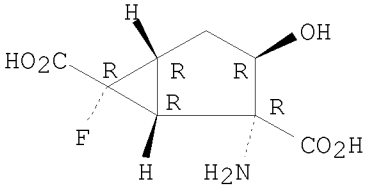
AB 2-Amino-6-fluorobicyclo[3.1.0]hexane-2,6-dicarboxylic acid derivs. represented by the general formula I [R1, R2 = H, alkyl, etc.; when R3 is OH, R4 is H; or R3R4 = bond] are prepared These compds. are useful as drugs, in particular, group 2 metabotropic glutamate receptor agonists having therapeutic and preventive effects on, for example, psychiatric diseases such as schizophrenia, anxiety, etc. (1R,2R,3R,5R,6R)-2-Amino-6-fluoro-3-hydroxybicyclo[3.1.0]hexane-2,6-dicarboxylic acid was prepared and its bioactivity was demonstrated.

IT 385372-18-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of bicyclo[3.1.0]dicarboxylic acid derivs. as group 2 metabotropic glutamate receptor agonists)

RN 385372-18-9 CAPLUS

CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-6-fluoro-3-hydroxy-, (1R,2R,3R,5R,6R)- (CA INDEX NAME)

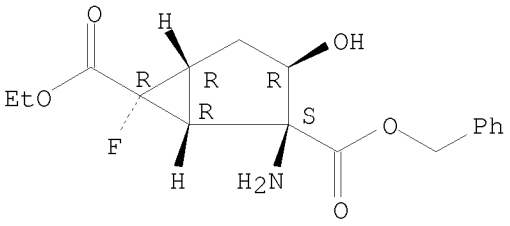
Absolute stereochemistry. Rotation (-).



IT 385372-31-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of bicyclo[3.1.0]dicarboxylic acid derivs. as group 2 metabotropic glutamate receptor agonists)

RN 385372-31-6 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-6-fluoro-3-hydroxy-, 6-ethyl 2-(phenylmethyl) ester, (1R,2S,3R,5R,6R)- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:157966 CAPLUS
DOCUMENT NUMBER: 132:166520
TITLE: Stereospecific synthesis of 2-amino-bicyclo[3.1.0]hexan-2,6-dicarboxylic acid derivatives for use as metabotropic glutamate receptor ligands
INVENTOR(S): Adam, Geo; Huguenin-Virchaux, Philippe Nicolas; Mutel, Vincent; Stadler, Heinz; Woltering, Thomas Johannes
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: Ger. Offen., 22 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
DE 19941675	A1	20000309	DE 1999-19941675	19990901	<--
CH 694053	A5	20040630	CH 1999-1550	19990824	
US 6107342	A	20000822	US 1999-385935	19990830	<--
CA 2281272	A1	20000303	CA 1999-2281272	19990831	<--
GB 2341179	A	20000308	GB 1999-20579	19990831	<--
GB 2341179	B	20040218			
JP 2000086597	A	20000328	JP 1999-244167	19990831	<--
JP 3340409	B2	20021105			
SE 9903088	A	20000304	SE 1999-3088	19990901	<--
SE 520026	C2	20030513			
FR 2786768	A1	20000609	FR 1999-10971	19990901	<--
FR 2786768	B1	20041015			
IT 99MI1860	A1	20010301	IT 1999-MI1860	19990901	<--
IT 1313618	B1	20020909			
NL 1012963	A1	20000306	NL 1999-1012963	19990902	<--
NL 1012963	C2	20031023			

AU 9947327	A	20000316	AU 1999-47327	19990902 <--
AU 757939	B2	20030313		
AT 501853	A1	20061115	AT 1999-1514	19990902
BE 1014616	A3	20040203	BE 1999-595	19990903

PRIORITY APPLN. INFO.: EP 1998-116670 A 19980903
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 132:166520
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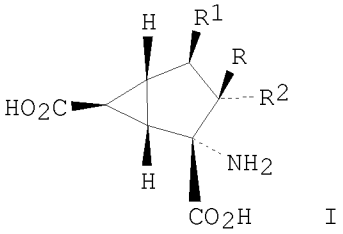


I

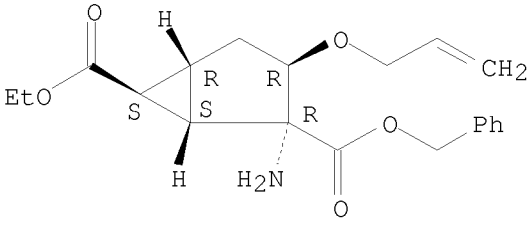
AB Title compds. [(I); R = OH, alkoxy, alkenyloxy, PhCH2O-, H, 2H, 3H; R1 = H, 3H; R,R1 = bond; R2 = H, 2H, 3H, OH, NH2] were stereospecifically prepared for use in treatment of neurol. conditions and psychiatric disturbances (no data). Thus, racemic Et (1α,5α,6α)-2-oxo-bicyclo[3.1.0]hexane-6-carboxylic acid was reacted with Ph bis((trifluoromethyl)sulfonyl)amine and the resulting triflate transformed into the racemic 2-ethyl-6-benzyl bicyclo[3.1.0]hex-2-ene-2,6-dicarboxylic acid, reaction of which with K2[OsO2(OH)4] gave stereospecifically the 1S,2S,3R,6S-diol, which could be isolated in 26% yield, at >99% enantiomeric excess. Preparation of the 2R-2-azido compound from the diol through a cyclic sulfate gave an intermediate which could then be alkylated, aminated, hydrogenated, de-esterified, or otherwise treated to give I, for use as ligands for metabotropic glutamate group II receptors.

IT 259134-78-6P 259134-79-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereospecific synthesis of 2-amino-bicyclo[3.1.0]hexan-2,6-dicarboxylic acid derivs. for use as metabotropic glutamate receptor ligands)

RN 259134-78-6 CAPLUS

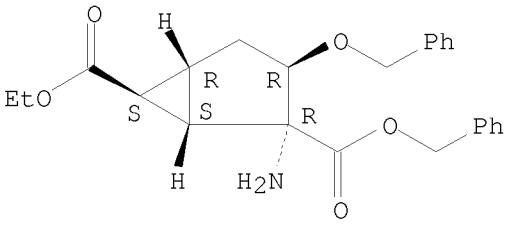
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-(2-propen-1-yloxy)-, 6-ethyl 2-(phenylmethyl) ester, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 259134-79-7 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-(phenylmethoxy)-, 6-ethyl 2-(phenylmethyl) ester, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

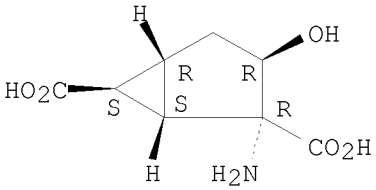
Absolute stereochemistry. Rotation (+).



IT 259134-85-5P 259134-86-6P 259134-87-7P
259134-88-8P 259134-89-9P 259134-94-6P
259134-95-7P 259134-96-8P 259134-97-9P
259134-98-0P 259135-00-7P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(stereospecific synthesis of 2-amino-bicyclo[3.1.0]hexan-2,6-dicarboxylic acid derivs. for use as metabotropic glutamate receptor ligands)

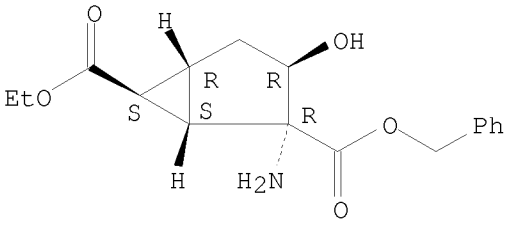
RN 259134-85-5 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



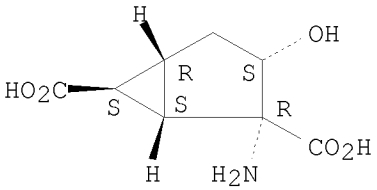
RN 259134-86-6 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, 6-ethyl 2-(phenylmethyl) ester, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry.



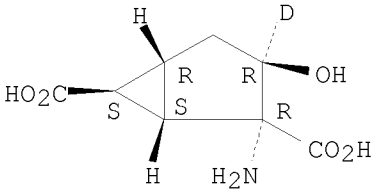
RN 259134-87-7 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3S,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



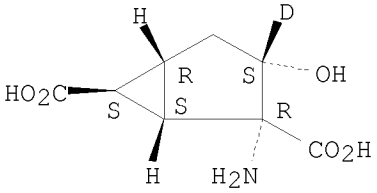
RN 259134-88-8 CAPLUS
CN Bicyclo[3.1.0]hexane-3-d-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3R,5R,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



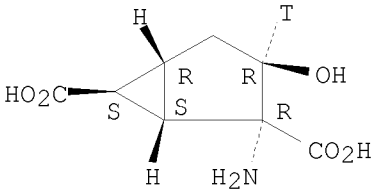
RN 259134-89-9 CAPLUS
CN Bicyclo[3.1.0]hexane-3-d-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3S,5R,6S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



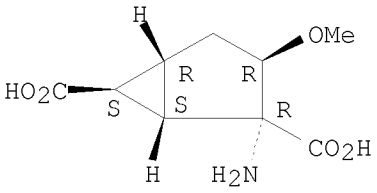
RN 259134-94-6 CAPLUS
CN Bicyclo[3.1.0]hexane-3-t-2,6-dicarboxylic acid, 2-amino-3-hydroxy-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry.



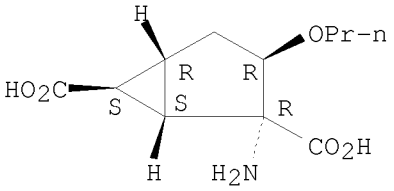
RN 259134-95-7 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-methoxy-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



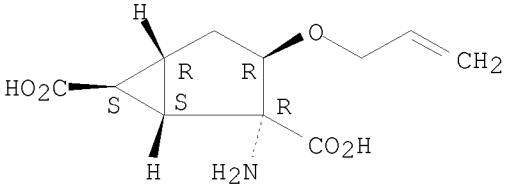
RN 259134-96-8 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-propoxy-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 259134-97-9 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-(2-propen-1-yloxy)-, (1S,2R,3R,5R,6S)- (CA INDEX NAME)

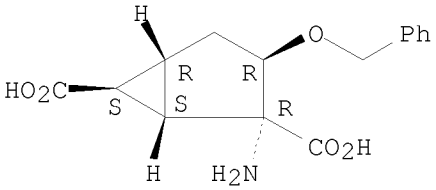
Absolute stereochemistry. Rotation (-).



RN 259134-98-0 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3-(phenylmethoxy)-,

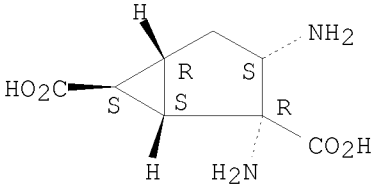
(1S,2R,3R,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 259135-00-7 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2,3-diamino-, (1S,2R,3S,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



OS.CITING REF COUNT: 11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS RECORD (28 CITINGS)

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2000:68447 CAPLUS
DOCUMENT NUMBER: 132:93652
TITLE: Preparation of 2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylates and related compounds as pharmaceutical intermediates and modulators of metabotropic glutamate receptor function.
INVENTOR(S): Baker, Stephen Richard; Monn, James Allen; Ezquerra Carrera, Jesus; Dominguez Fernandez, Carmen
PATENT ASSIGNEE(S): Eli Lilly and Company Limited, UK; Lilly, S.A.; Eli Lilly and Company
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000004010	A1	20000127	WO 1999-GB2273	19990714 <--

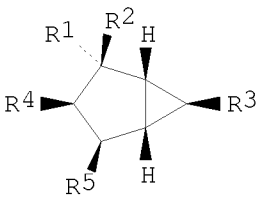
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,

MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
TR, TT, UA, UG, US, UZ, VN, YU, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2338054	A1	20000127	CA 1999-2338054		19990714 <--
AU 9949223	A	20000207	AU 1999-49223		19990714 <--
EP 1097149	A1	20010509	EP 1999-933048		19990714 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
JP 2002520406	T	20020709	JP 2000-560116		19990714 <--
PRIORITY APPLN. INFO.:			GB 1998-15542	A	19980717
			WO 1999-GB2273	W	19990714

OTHER SOURCE(S): MARPAT 132:93652

GI



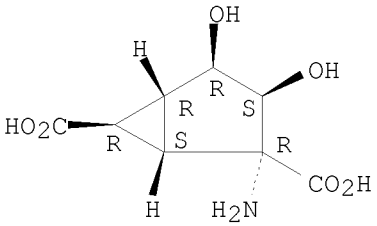
I

AB Title compds. [I; either R1 = N3, (protected) amino; R2 = (protected) carboxy; or R1 = trihalomethyl; R2 = OH; R3 = (protected) carboxy; either R4 = OR6 and R5 = OR7; or R4 and R5 = H or R4R5 = bond; ether R6 and R7 = H; or R6R7 = diol protecting group; provided that when R4 and R5 = H, R1 ≠ amino], were prepared s pharmaceutical intermediates and modulators of metabotropic glutamate receptor function (no data). Thus, ethoxycarbonylmethyldimethylsulfonium bromide in CHCl3 was treated with DBU and then with (-)-2,3-(cyclohexylidenedioxy)-4-cyclopentenone in CHCl3 followed by stirring overnight to give 96% Et (1S,3R,4R,5R,6S)-2-oxo-3,4-cyclohexylidenedioxybicyclo[3.1.0]hexane-6-carboxylate. This with CHCl3 in THF at -78° was treated with Li hexamethyldisilazide in THF followed by warming to room temperature to give 94% Et (1S,2S,3R,4R,5R,6S)-2-trichloromethyl-2-hydroxy-3,4-cyclohexylidenedioxybicyclo[3.1.0]hexane-6-carboxylate. Treatment of the latter with NaN3, 18-crown-6, and DBU in MeOH over 6 h gave 84% di-Me (1S,2R,3S,4R,5R,6S)-2-azido-3,4-cyclohexylidenedioxybicyclo[3.1.0]hexane-2,6-dicarboxylate. This was hydrogenated in EtOAc over Pd/C to give 71% of the corresponding amine, which was converted to (1S,2R,3S,4R,5R,6R)-2-amino-3,4-dihydroxybicyclo[3.1.0]hexane-2,6-dicarboxylic acid in several steps.

IT 254982-42-8P 254982-43-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-aminobicyclo[3.1.0]hexane-2,6-dicarboxylates and related compds. as pharmaceutical intermediates and modulators of metabotropic glutamate receptor function)

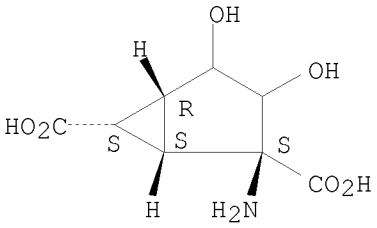
RN 254982-42-8 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3,4-dihydroxy-, (1S,2R,3S,4R,5R,6R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 254982-43-9 CAPLUS
CN Bicyclo[3.1.0]hexane-2,6-dicarboxylic acid, 2-amino-3,4-dihydroxy-, (1S,2S,5R,6S)- (CA INDEX NAME)

Absolute stereochemistry.



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